PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

PCT MISO

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Form PCT/IPEA/416					
689290.188 International application No.	International filing date (day/month/ye	ear) Priority date (day/month/year)					
PCT/US04/09289	15 April 2004 (15.04.2004)	15 April 2003 (15.04.2003)					
International Patent Classification (IPC) or national classification and IPC							
IPC(7): C12Q 1/68 and US Cl.: 435/6							
Applicant							
AVALON PHARMACEUTICALS, IN	C.						
		ort optoblished by this International Preliminary					
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
	f a total of U sheets, including this c	cover sheet.					
3. This report is also accom	panied by ANNEXES, comprising:						
a. (sent to the applie	ant and to the International Bureau)	a total of sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
b. (sent to the Intern	ational Bureau only) a total of (indica	ate type and number of electronic carrier(s))					
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indi	cations relating to the following items	5:					
Box No. I	Basis of the report						
Box No. II	Priority						
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
1 —	Lack of unity of invention						
	easoned statement under Article 35(2) with regard to novelty, inventive step or						
[industrial applicability; citations and explanations supporting such statement VI Certain documents cited						
Box No. VII	ertain defects in the international application						
	Certain observations on the international application						
Date of submission of the demand	Date of c	completion of this report					
10 November 2004 (10.11.2004)	(770	005 (27.05.2005)					
Name and mailing address of the IPEA Mail Stop PCT, Attn: IPEA/US	Authorize	goffice Shuker &					
Commissioner for Patents	Kermeth	R. Horlick					
P.O. Box 1450 Alexandria, Virginia 22313-145		e No. (571) 272-1600					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
PC/L/1204/00380	

Box No. I Basis of the report
 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:
international search (under Rules 12.3 and 23.1(b))
publication of the international application (under Rule 12.4)
international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):
the international application as originally filed/furnished
the description:
pages 1-80 as originally filed/furnished
pages* NONE received by this Authority on
pages* NONE received by this Authority on
the claims:
pages 81-91 as originally filed/furnished pages* NONE as amended (together with any statement) under Article 19
pages* NONE as amended (together with any statement) under Article 19 pages* NONE received by this Authority on
pages* NONE received by this Authority on
the drawings:
pages NONE as originally filed/furnished
pages* NONE received by this Authority on
pages* NONE received by this Authority on
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:
the description, pages
the claims, Nos
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
y and the supplemental Box (Rule 70.2(c)).
the description, pages
the claims, Nos
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
* If item 4 applies, some or all of those sheets may be marked "superseded."
Form PCT/IPEA/409 (Box No. I) (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
PCT/US04/09289	

Box No.	o. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
The ques	stions lly ap	whether the claimed invention plicable have not been examin	n appea ned in r	rs to be novel, to involve an inventive step (to be non obvious), or to be espect of:			
	the e	ntire international application					
\boxtimes	clain	lairns Nos. 1-83 (in-part)					
	becar	use:					
	the s not r	the said international application, or the said claim Nos relate to the following subject matter which does not require an international preliminary examination (specify):					
	the o	lescription, claims or drawing no meaningful opinion could	s (indic be form	rate particular elements below) or said claims Nos are so unclear ned (specify):			
		claims, or said claims Nos.	;	are so inadequately supported by the description that no meaningful			
	no international search report has been established for said claims Nos. 1-83 (in-part)						
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:						
	the	written form		has not been furnished			
				does not comply with the standard			
	the	computer readable form		has not been furnished			
				does not comply with the standard			
	the	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.					
	See Supplemental Box for further details.			.			
	2007 M. 1400 (D N III) (January 2004)						

Form PCT/IPEA/409 (Box No. III) (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/09289

Box No. V Reasoned statement under Art applicability; citations and exp	ticle 35(2) with planations sup	n regard to novelty, inventive porting such statement	e step or industrial
	<u>-</u>		
1. Statement		•	
Novelty (N)		NONE	
	Claims	1-83	NO
Inventive Step (IS)	Claims	NONE	YES
mvenave otep (13)	Claims		NO NO
Industrial Applicability (IA)	Claims	1-83	
	Claims	NONE	
relate to diagnosing or treating cancer based on dete discloses six genes comprising nucleotide sequences 8737, and 8984. This reference also discloses use o 360-448). Claims 1-83 (with respect to SEQ ID NO:1) meet the subject matter claimed can be made or used in in the subject matter claimed can be made or used in in the subject matter claimed can be made or used in the subject matter claim	s which are iden of such genes for ne criteria set ou	tical to SEQ ID NO:1; see SEQ I diagnosing and treating cancer, s	D NO:8806, 8674, 8852, 8742, such as ovarian cancer (see pages

Form PCT/IPEA/409 (Box No. V) (January 2004)